

What is claimed is:

Sub A 6
1. A scroll-type compressor for handling a working fluid, said compressor comprising:

- 5 a shell having a suction zone and a discharge zone;
- a first scroll member disposed in said shell and having a first scroll wrap extending from a first end plate;
- a second scroll member disposed in said shell and having a second scroll wrap extending from a second end plate, said second scroll wrap being intermeshed with said first scroll wrap to define a plurality of closed pockets;
- 10 a drive mechanism for causing said second scroll member to orbit with respect to said first scroll member, said plurality of pockets moving from a radial outer position in said suction zone to a central position in said discharge zone;
- a fluid circuit in communication with at least one of said plurality of pockets, said fluid circuit including a fluid passage extending from said one pocket to
- 15 a position outside said shell, said fluid passage extending through said second scroll member.

2. The scroll-type compressor according to Claim 1, further comprising a housing disposed within said shell, said housing supporting said second scroll member, said fluid passage extending through said housing.

3. The scroll-type compressor according to Claim 2, further comprising a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

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4. The scroll-type compressor according to Claim 3, wherein said valve is controlled by a pressurized fluid from outside said shell.

5. The scroll-type compressor according to Claim 4, further comprising a valve for controlling fluid flow through said fluid passage.

²/₆ 6. The scroll-type compressor according to Claim ¹/₅, wherein said valve is disposed within said shell.

³/₇ 7. The scroll-type compressor according to Claim ²/₆, wherein said valve is controlled by a pressurized fluid from outside said shell.

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8. The scroll-type compressor according to Claim 1, further comprising a housing having a plurality of legs disposed within said shell, said housing supporting said first scroll member, said fluid passage extending through one of said legs of said housing.

¹²/₉ 9. The scroll-type compressor according to Claim ¹¹/₈, further comprising a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

¹³/₁₀ 10. The scroll-type compressor according to Claim ¹²/₉, wherein said valve is controlled by a pressurized fluid from outside said shell.

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11. A scroll-type compressor for handling a working fluid; said compressor comprising:
- 5 a shell;
- a non-orbiting scroll member disposed within said shell and having a non-orbiting scroll wrap extending from a non-orbiting end plate;
- an orbiting scroll member disposed within said shell and having an orbiting scroll wrap extending from an orbiting end plate, said orbiting scroll wrap being intermeshed with said non-orbiting scroll member to define a plurality of closed pockets;
- 10 a drive mechanism for causing said orbiting scroll member to orbit with respect to said non-orbiting scroll member, said plurality of closed pockets moving from a radial outer position where said working fluid is at a suction pressure to a radially inner central position where said working fluid is at a higher discharge pressure during said orbital movement;
- 15 a fluid circuit in communication with at least one of said plurality of moving pockets, said fluid circuit including a fluid passage extending from said one pocket to a position outside of said shell, said fluid pocket extending through said orbiting scroll member.

12. The scroll-type compressor according to Claim 11, further comprising a housing disposed within said shell, said housing supporting said orbiting scroll member, said fluid passage extending through said housing.

13. The scroll-type compressor according to Claim 12, further comprising a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

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14. The scroll-type compressor according to Claim 13, wherein said valve is controlled by a pressurized fluid from outside said shell.

15. The scroll-type compressor according to Claim 11 further comprising a valve for controlling fluid flow through said fluid passage.

- ~~16.~~ The scroll-type compressor according to Claim ~~15~~, wherein said valve is disposed within said shell.

- ~~17.~~ The scroll-type compressor according to Claim ~~16~~, wherein said valve is controlled by a pressurized fluid from outside said shell.

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18. The scroll-type compressor according to Claim 1, further comprising a housing having a plurality of legs disposed within said shell, said housing supporting said orbiting scroll member, said fluid passage extending through one of said legs of said housing.

- ~~19.~~ The scroll-type compressor according to Claim ~~18~~, further comprising a valve disposed within said one leg of said housing, said valve controlling fluid flow through said fluid passage.

- ~~20.~~ The scroll-type compressor according to Claim ~~19~~, wherein said valve is controlled by a pressurized fluid from outside said shell.

21. A scroll-type compressor for handling a working fluid, said compressor comprising:

a shell having a suction zone and a discharge zone;

5 a first scroll member disposed in said shell and having a first scroll wrap extending from a first end plate;

a second scroll member disposed in said shell and having a second scroll wrap extending from a second end plate, said second scroll wrap being intermeshed with said first scroll wrap to define a plurality of closed pockets;

10 a drive mechanism for causing said second scroll member to orbit with respect to said first scroll member, said plurality of pockets moving from a radial outer position in said suction zone to a central position in said discharge zone;

15 a fluid circuit in communication with at least one of said plurality of pockets, said fluid circuit including a fluid passage extending from said one pocket to said suction zone of said compressor, said fluid passage extending through said second scroll member.

22. The scroll-type compressor according to Claim 21, wherein said first scroll member is a non-orbiting scroll and said second scroll member is an orbiting scroll.

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23. The scroll-type compressor according to Claim 21, further comprising a housing disposed within said shell, said housing supporting said second scroll member, said fluid passage extending through said housing.

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The scroll-type compressor according to Claim 23, further comprising a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

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The scroll-type compressor according to Claim ~~24~~, wherein said valve is controlled by a pressurized fluid from outside said shell.

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26. The scroll-type compressor according to Claim 24, wherein said valve is movable between a first position where said fluid passage communicates with said suction zone of said compressor and a second position where said fluid passage communicates with a position outside said shell.

27. The scroll-type compressor according to Claim 21, further comprising a valve for controlling fluid flow through said fluid passage.

28. The scroll-type compressor according to Claim 27, wherein said valve is disposed within said shell.

29. The scroll-type compressor according to Claim 28, wherein said valve is controlled by a pressurized fluid from outside said shell.

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30. The scroll-type compressor according to Claim 27, wherein said valve is movable between a first position where said fluid passage communicates with said suction zone of said compressor and a second position where said fluid passage communicates with a position outside said shell.

31. The scroll-type compressor according to Claim 21, further comprising a housing having a plurality of legs disposed within said shell, said housing supporting said first scroll member, said fluid passage extending through one of said legs of said housing.

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The scroll-type compressor according to Claim ~~31~~²³, further comprising a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

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The scroll-type compressor according to Claim ~~32~~²⁴, wherein said valve is controlled by a pressurized fluid from outside said shell.

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